

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/764,8/8		
Source:	IFWO		
Date Processed by STIC:	2/9/04	سم	
- 1			

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221 Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry directly to (EFFECTIVE 12/01/03):
 U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4 Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



OWELT

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TIME: 10:36:04
                     PATENT APPLICATION: US/10/764,818
                     Input Set: N:\FATIMA\10764818.txt
                     Output Set: N:\CRF4\02062004\J764818.raw
      3 <110> APPLICANT: ADVISYS
      5 <120> TITLE OF INVENTION: GROWTH HORMONE RELEASING HORMONE ("GHRH") TREATMENT
DECREASES CULLING IN
              HERD ANIMALS
      8 <130> FILE REFERENCE: 108328.00170 - AVSI-0033
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/764,818
C--> 10 <141> CURRENT FILING DATE: 2004-01-26
     10 <160> NUMBER OF SEQ ID NOS: 30
                                                                Dose Not Comply
     12 <170> SOFTWARE: PatentIn version 3.1
                                                            Corrected Diskette Needer
     14 <210> SEQ ID NO: 1
     15 <211> LENGTH: 40
     16 <212> TYPE: PRT
     17 <213> ORGANISM: artificial sequence
     19 <220> FEATURE:
     20 <223> OTHER INFORMATION: This is the amino acid sequenc for HV-GHRH.
     22 <400> SEQUENCE: 1
     24 His Val Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Ala Gln
                        5
                                            10
     28 Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Leu Asn Arg Gln Gln Gly
                    20
     29
     32 Glu Arg Asn Gln Glu Gln Gly Ala
                35
     33
     36 <210> SEQ ID NO: 2
     37 <211> LENGTH: 40
     38 <212> TYPE: PRT
     39 <213> ORGANISM: artificial sequence
     41 <220> FEATURE:
     42 <223> OTHER INFORMATION: This is the amino acid sequenc for TI-GHRH.
     44 <400> SEQUENCE: 2
     46 Tyr Ile Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Ala Gln
     47 1
     50 Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Leu Asn Arg Gln Gly
                    20
     51
     54 Glu Arg Asn Gln Glu Gln Gly Ala
     55
                35
     58 <210> SEQ ID NO: 3
     59 <211> LENGTH: 40
     60 <212> TYPE: PRT
     61 <213> ORGANISM: artificial sequence
     63 <220> FEATURE:
     64 <223> OTHER INFORMATION: This is the amino acid sequenc for TV-GHRH.
     66 <400> SEQUENCE: 3
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68 Tyr Val Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Ala Gln

10

RAW SEQUENCE LISTING

5

69 1

TIME: 10:36:04

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Input Set : N:\FATIMA\10764818.txt
                Output Set: N:\CRF4\02062004\J764818.raw
72 Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Leu Asn Arg Gln Gln Gly
                                   25
               20
76 Glu Arg Asn Gln Glu Gln Gly Ala
         35
80 <210> SEQ ID NO: 4
81 <211> LENGTH: 40
82 <212> TYPE: PRT
83 <213> ORGANISM: artificial sequence
85 <220> FEATURE:
86 <223> OTHER INFORMATION: This is the amino acid sequenc for 15/27/28-GHRH.
88 <400> SEQUENCE: 4
90 Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Ala Gln
                                       10
94 Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Leu Asn Arg Gln Gln Gly
                                   25
95 20
98 Glu Arg Asn Gln Glu Gln Gly Ala
           35
99
102 <210> SEQ ID NO: 5
103 <211> LENGTH: 44
104 <212> TYPE: PRT
105 <213> ORGANISM: artificial sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: This is a consensus sequence for GHRH
110 <400> SEQUENCE: 5
112 Thr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln
                                        10
                    5
116 Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly
                                    25
120 Glu Ser Asn Gln Glu Arg Gly Ala Arg Ala Arg Leu
121
            35
124 <210> SEQ ID NO: 6
125 <211> LENGTH: 40
126 <212> TYPE: PRT
127 <213> ORGANISM: artificial sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: This is the artificial sequence for GHRH (1-40)OH.
132 <220> FEATURE:
133 <221> NAME/KEY: MISC FEATURE
134 <222> LOCATION: (1)..(1)
135 <223> OTHER INFORMATION: Xaa at position 1 may be tyrosine, or histidine
138 <220> FEATURE:
139 <221> NAME/KEY: MISC FEATURE
140 <222> LOCATION: (2)..(2)
141 <223> OTHER INFORMATION: Xaa at position 2 may be alanine, valine, or isoleucine.
144 <220> FEATURE:
145 <221> NAME/KEY: MISC FEATURE
146 <222> LOCATION: (15)..(15)
147 <223> OTHER INFORMATION: Xaa at position 15 may be alanine, valine, or isoleucine.
150 <220> FEATURE:
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/764,818

RAW SEQUENCE LISTING

DATE: 02/09/2004

PATENT APPLICATION: US/10/764,818

Input Set : N:\FATIMA\10764818.txt

TIME: 10:36:04

Output Set: N:\CRF4\02062004\J764818.raw 151 <221> NAME/KEY: MISC FEATURE 152 <222> LOCATION: (27)..(27) 153 <223> OTHER INFORMATION: Xaa at position 27 may be methionine, or leucine. 156 <220> FEATURE: 157 <221> NAME/KEY: MISC FEATURE 158 <222> LOCATION: (28)..(28) 159 <223> OTHER INFORMATION: Xaa at position 28 may be serine or asparagine. Avg can only represent itself, nothing else. Use Xaa, instead, and explain in se kaa, 22207-22237 section 162 <220> FEATURE: 163 <221> NAME/KEY: MISC FEATURE 164 <222> LOCATION: (34)..(34) 165 <223> OTHER INFORMATION: ARG may also be SER 168 <220> FEATURE: 169 <221> NAME/KEY: MISC FEATURE same error 170 <222> LOCATION: (38)..(38) 171 <223> OTHER INFORMATION: Gln may also be Arg 174 <400> SEQUENCE: 6 -> 176 Xaa Xaa Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys 10 177 1 180 Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Xaa Xaa Arg Gln Gln Gly 25 20 181 Asn Gln Glu Gly Ala 184 Glu (Arg 40 35 185 188 <210> SEQ ID NO: 7 189 <211> LENGTH: 323 190 <212> TYPE: DNA 191 <213> ORGANISM: artificial sequence 193 <220> FEATURE: 194 <223> OTHER INFORMATION: This is a nucleic acid sequence of a eukaryotic promoter c5-196 <400> SEQUENCE: 7 60 197 cggccgtccg ccctcggcac catcctcacg acacccaaat atggcgacgg gtgaggaatg 199 gtggggagtt atttttagag cggtgaggaa ggtgggcagg cagcaggtgt tggcgctcta 120 201 aaaataactc ccgggagtta tttttagagc ggaggaatgg tggacaccca aatatggcga 180 203 cggttcctca cccgtcgcca tatttgggtg tccgccctcg gccggggccg cattcctggg 240 205 ggccgggcgg tgctccgcc cgcctcgata aaaggctccg gggccggcgg cggcccacga 300 323 207 gctacccgga ggagcgggag gcg 210 <210> SEO ID NO: 8 211 <211> LENGTH: 190 212 <212> TYPE: DNA 213 <213> ORGANISM: artificial sequence 215 <220> FEATURE: 216 <223> OTHER INFORMATION: Nucleic acid sequence of a hGH poly A tail.

219 gggtggcatc cctgtgaccc ctccccagtg cctctcctgg ccctggaagt tgccactcca

221 gtgcccacca gccttgtcct aataaaatta agttgcatca ttttgtctga ctaggtgtcc

223 ttctataata ttatggggtg gagggggtg gtatggagca aggggcaagt tgggaagaca

60

120

180 190

218 <400> SEQUENCE: 8

228 <210> SEQ ID NO: 9 229 <211> LENGTH: 219 230 <212> TYPE: DNA

225 acctgtaggg

12.

TIME: 10:36:04

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Input Set : N:\FATIMA\10764818.txt
                Output Set: N:\CRF4\02062004\J764818.raw
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233 <220> FEATURE:
234 <223> OTHER INFORMATION: This is the cDNA for Porcine GHRH.
236 <400> SEQUENCE: 9
237 atggtgctct gggtgttctt ctttgtgatc ctcaccctca gcaacagctc ccactgctcc
                                                                           60
239 ccacctccc ctttgaccct caggatgcgg cggcacgtag atgccatctt caccaacagc
                                                                          120
241 taccggaagg tgctggccca gctgtccgcc cgcaagctgc tccaggacat cctgaacagg
                                                                          180
                                                                          219
243 cagcagggag agaggaacca agagcaagga gcataatga
246 <210> SEQ ID NO: 10
247 <211> LENGTH: 40
248 <212> TYPE: PRT
249 <213> ORGANISM: artificial sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: This is the amino acid sequence for porcine GHRH.
254 <400> SEQUENCE: 10
256 Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln
                                         10
257 1
260 Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly
                                     25
                20
264 Glu Arg Asn Gln Glu Gln Gly Ala
            35
265
268 <210> SEQ ID NO: 11
269 <211> LENGTH: 3534
270 <212> TYPE: DNA
271 <213> ORGANISM: artificial sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: This is the nucleic acid sequence for the operatively linked
          onents of the HV-GHRH plasmid.
275
277 <400> SEQUENCE: 11
278 gttgtaaaac gacggccagt gaattgtaat acgactcact atagggcgaa ttggagctcc
                                                                            60
280 accgcggtgg cggccgtccg ccctcggcac catcctcacg acacccaaat atggcgacgg
                                                                           120
282 gtgaggaatg gtggggagtt atttttagag cggtgaggaa ggtgggcagg cagcaggtgt
                                                                           180
284 tggcgctcta aaaataactc ccgggagtta tttttagagc ggaggaatgg tggacaccca
                                                                           240
286 aatatggcga cggttcctca cccgtcgcca tatttgggtg tccgccctcg gccggggccg
                                                                           300
288 cattcctggg ggccgggcgg tgctcccgcc cgcctcgata aaaggctccg gggccggcgg
                                                                           360
290 cggcccacga gctacccgga ggagcgggag gcgccaagct ctagaactag tggatcccaa
                                                                           420
292 ggcccaactc cccgaaccac tcagggtcct gtggacagct cacctagctg ccatggtgct
                                                                           480
294 ctgggtgttc ttctttgtga tcctcaccct cagcaacagc tcccactgct ccccacctcc
                                                                           540
296 ccctttgacc ctcaggatgc ggcggcacgt agatgccatc ttcaccaaca gctaccggaa
                                                                           600
298 ggtgctggcc cagctgtccg cccgcaagct gctccaggac atcctgaaca ggcagcaggg
                                                                           660
 300 agagaggaac caagagcaag gagcataatg actgcaggaa ttcgatatca agcttatcgg
                                                                           720
 302 ggtggcatcc ctgtgacccc tccccagtgc ctctcctggc cctggaagtt gccactccag
                                                                           780
 304 tgcccaccag ccttgtccta ataaaattaa gttgcatcat tttgtctgac taggtgtcct
                                                                           840
 306 tctataatat tatggggtgg aggggggtgg tatggagcaa ggggcaagtt gggaagacaa
                                                                           900
 308 cctgtagggc ctgcggggtc tattgggaac caagctggag tgcagtggca caatcttggc
                                                                           960
 310 tcactgcaat ctccgcctcc tgggttcaag cgattctcct gcctcagcct cccgagttgt
                                                                          1020
 312 tgggattcca ggcatgcatg accaggctca gctaattttt gtttttttgg tagagacggg
                                                                          1080
 314 gtttcaccat attggccagg ctggtctcca actcctaatc tcaggtgatc tacccacctt
                                                                          1140
 316 ggcctcccaa attgctggga ttacaggcgt gaaccactgc tecettccct gtccttctga
                                                                          1200
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/764,818

COMP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/764,818 TIME: 10:36:04

Input Set : N:\FATIMA\10764818.txt
Output Set: N:\CRF4\020620.04\J764818.raw

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318 ttttaaaata actataccag caggaggacg tccagacaca gcataggcta cctggccatg
320 cccaaccggt gggacatttg agttgcttgc ttggcactgt cctctcatgc gttgggtcca
                                                                         1320
322 ctcagtagat gcctgttgaa ttcgataccg tcgacctcga gggggggccc ggtaccagct
                                                                         1380
324 tttgttccct ttagtgaggg ttaatttcga gcttggcgta atcatggtca tagctgtttc
                                                                         1440
326 ctgtgtgaaa ttgttatccg ctcacaattc cacacaacat acgagccgga agcataaagt
                                                                         1500
                                                                         1560
328 gtaaagcctg gggtgcctaa tgagtgagct aactcacatt aattgcgttg cgctcactgc
                                                                         1620
330 ccgctttcca gtcgggaaac ctgtcgtgcc agctgcatta atgaatcggc caacgcgcgg
332 ggagaggcgg tttgcgtatt gggcgctctt ccgcttcctc gctcactgac tcgctgcgct
                                                                         1680
334 cggtcgttcg gctgcggcga gcggtatcag ctcactcaaa ggcggtaata cggttatcca
                                                                         1740
336 cagaatcagg ggataacgca ggaaagaaca tgtgagcaaa aggccagcaa aaggccagga
                                                                         1800
338 accgtaaaaa ggccgcgttg ctggcgtttt tccataggct ccgcccccct gacgagcatc
                                                                         1860
340 acaaaaatcg acgctcaagt cagaggtggc gaaacccgac aggactataa agataccagg
                                                                         1920
342 cgtttccccc tggaagctcc ctcgtgcgct ctcctgttcc gaccctgccg cttaccggat
                                                                         1980
                                                                         2040
344 acctgtccgc ctttctccct tcgggaagcg tggcgctttc tcatagctca cgctgtaggt
346 atctcagttc ggtgtaggtc gttcgctcca agctgggctg tgtgcacgaa ccccccgttc
                                                                         2100
348 agecegaceg etgegeetta teeggtaact ategtettga gtecaaceeg gtaagacaeg
                                                                         2160
350 acttatcgcc actggcagca gccactggta acaggattag cagagcgagg tatgtaggcg
                                                                         2220
352 gtgctacaga gttcttgaag tggtggccta actacggcta cactagaaga acagtatttg
                                                                         2280
354 gtatctgcgc tctgctgaag ccagttacct tcggaaaaag agttggtagc tcttgatccg
                                                                         2340
356 gcaaacaaac caccgctggt agcggtggtt tttttgtttg caagcagcag attacgcgca
                                                                         2400
358 gaaaaaaagg atctcaagaa gatcctttga tcttttctac ggggtctgac gctcagaaga
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360 actcgtcaag aaggcgatag aaggcgatgc gctgcgaatc gggagcggcg ataccgtaaa
                                                                         2520
                                                                         2580
362 gcacgaggaa gcggtcagcc cattcgccgc caagctcttc agcaatatca cgggtagcca
364 acgctatgtc ctgatagcgg tccgccacac ccagccggcc acagtcgatg aatccagaaa
                                                                         2640
366 agcggccatt ttccaccatg atattcggca agcaggcatc gccatgggtc acgacgagat
                                                                          2700
                                                                          2760
368 cctcgccgtc gggcatgcgc gccttgagcc tggcgaacag ttcggctggc gcgagcccct
370 gatgetette gtecagatea teetgatega caagacegge ttecateega gtaegtgete
                                                                          2820
372 gctcgatgcg atgtttcgct tggtggtcga atgggcaggt agccggatca agcgtatgca
                                                                          2880
374 gccgccgcat tgcatcagcc atgatggata ctttctcggc aggagcaagg tgagatgaca
                                                                          2940
                                                                          3000
376 ggagatectq ecceggeact tegeceaata geagecagte cetteceget teagtgacaa
                                                                          3060
378 cgtcgagcac agctgcgcaa ggaacgcccg tcgtggccag ccacgatagc cgcgctgcct
                                                                          3120
380 cgtcctgcag ttcattcagg gcaccggaca ggtcggtctt gacaaaaaga accgggcgcc
382 cctgcgctga cagccggaac acggcggcat cagagcagcc gattgtctgt tgtgcccagt
                                                                          3180
384 catageegaa tageetetee acceaagegg eeggagaace tgegtgeaat eeatettgtt
                                                                          3240
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386 caatcatgcg aaacgateet cateetgtet ettgateaga tettgateee etgegeeate
388 agateettgg eggeaagaaa geeateeagt ttaetttgea gggetteeea aeettaeeag
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390 agggcgcccc agctggcaat teeggttege ttgetgteea taaaacegee eagtetagea
                                                                          3420
392 actgttggga agggcgatcg gtgcgggcct cttcgctatt acgccagctg gcgaaagggg
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394 gatgtgctgc aaggcgatta agttgggtaa cgccagggtt ttcccagtca cgac
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397 <210> SEQ ID NO: 12
398 <211> LENGTH: 3534
399 <212> TYPE: DNA
400 <213> ORGANISM: artificial sequence
402 <220> FEATURE:
403 <223> OTHER INFORMATION: Nucleic acid sequence for the TI-GHRH plasmid.
405 <400> SEQUENCE: 12
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406 gttgtaaaac gacggccagt gaattgtaat acgactcact atagggcgaa ttggagctcc
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408 accgcggtgg cggccgtccg ccctcggcac catcctcacg acacccaaat atggcgacgg
410 gtgaggaatg gtggggagtt atttttagag cggtgaggaa ggtgggcagg cagcaggtgt
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RAW SEQUENCE LISTING ERROR SUMMARY

PATENT APPLICATION: US/10/764,818

DATE: 02/09/2004

TIME: 10:36:05

Input Set : N:\FATIMA\10764818.txt

Output' Set: N:\CRF4\02062004\J764818.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/764,818

DATE: 02/09/2004 TIME: 10:36:05

Input Set: N:\FATIMA\10764818.txt

Output Set: N:\CRF4\02062004\J764818.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0

M:341 Repeated in SeqNo=6